

ABSTRACT OF THE INVENTION

5 A method of forming a reinforced polymer film structure is disclosed that
includes the steps of slitting a biaxially oriented polymer film web having a top face and
a bottom face into a first portion and a second portion, identifying the first portion and
the second portion, and placing the first portion atop the second portion, such that the
bottom face of the first portion is adjacent the top face of the second portion. This
10 structure provides an impact and tear resistant laminate. Also disclosed is a method of
forming a polymer film structure by identifying a molecular orientation direction profile
of two portions of biaxially oriented polymer film and layering the two portions such that
a molecular orientation direction profile of one does not coincide with a molecular
orientation direction profile of the other.

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